SMARTWITNESS

SMART-I

User Manual

Thank you for purchasing SMART-I, the new way to view & record your world!

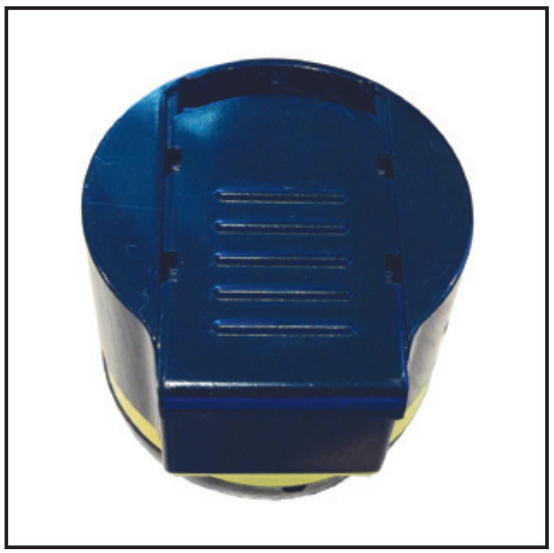
Please read this user manual before using your SMART-I.

Contents:

2 Turning on SMART-I
3 Connecting to SMART-I
6 View SMART-I on a PC or Mac
8 View SMART-I on an iPhone or iPad
10 View SMART-I on an Android
12 Record SMART-I on a PC or Mac
14 Record SMART-I on an iPhone or iPad
16 Record SMART-I on an Android
18 Configuring the SMART-I's WiFi
20 Accessing SMART-I over the Internet

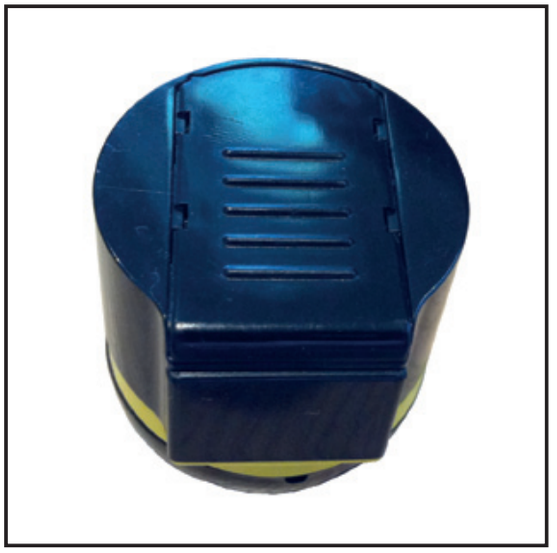
STEP 1 > TURN ON

Installing the battery in your SMART-I



Slide the battery cover part of the way (as shown), and lift off to reveal the battery compartment

Insert the battery (making sure that '+' is facing the top of your SMART-I)



Position the cover back on to your SMART-I and slide up to close

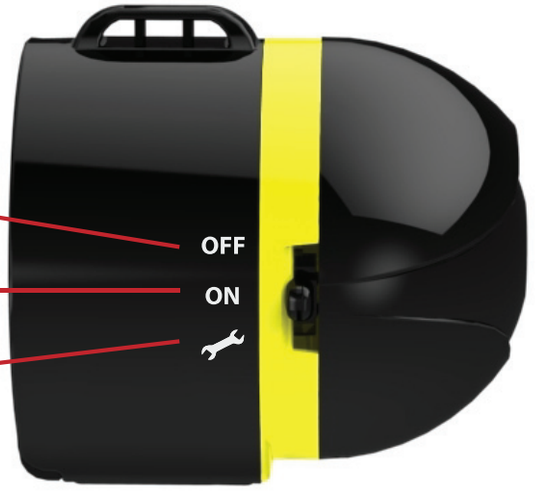
Operating SMART-I

To opearate your SMART-I move the switch to the desired function:

Switches **OFF** your SMART-I

Turns **ON** your SMART-I

Turns on your SMART-I and puts it in to **SETUP** mode



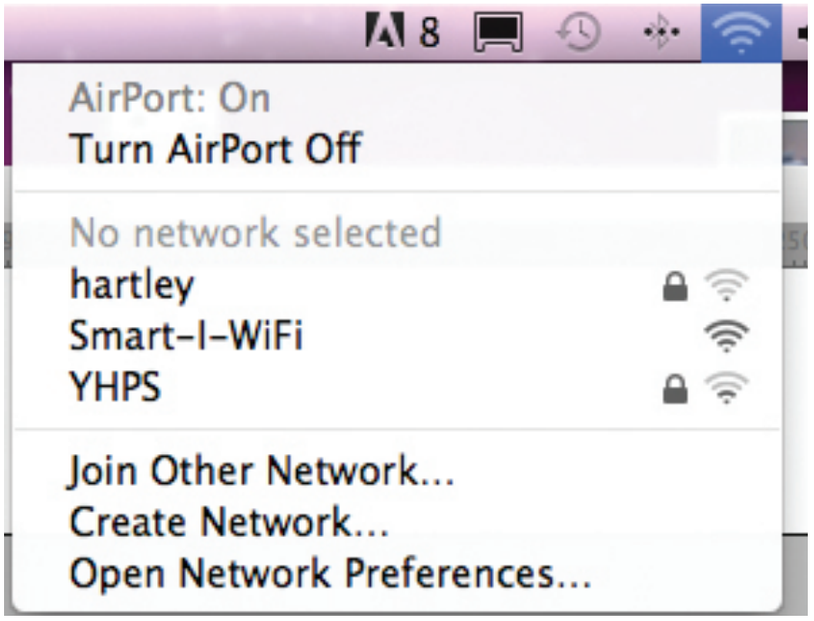
STEP 2 > CONNECT

Connecting directly to your SMART-I using a Windows PC or Mac

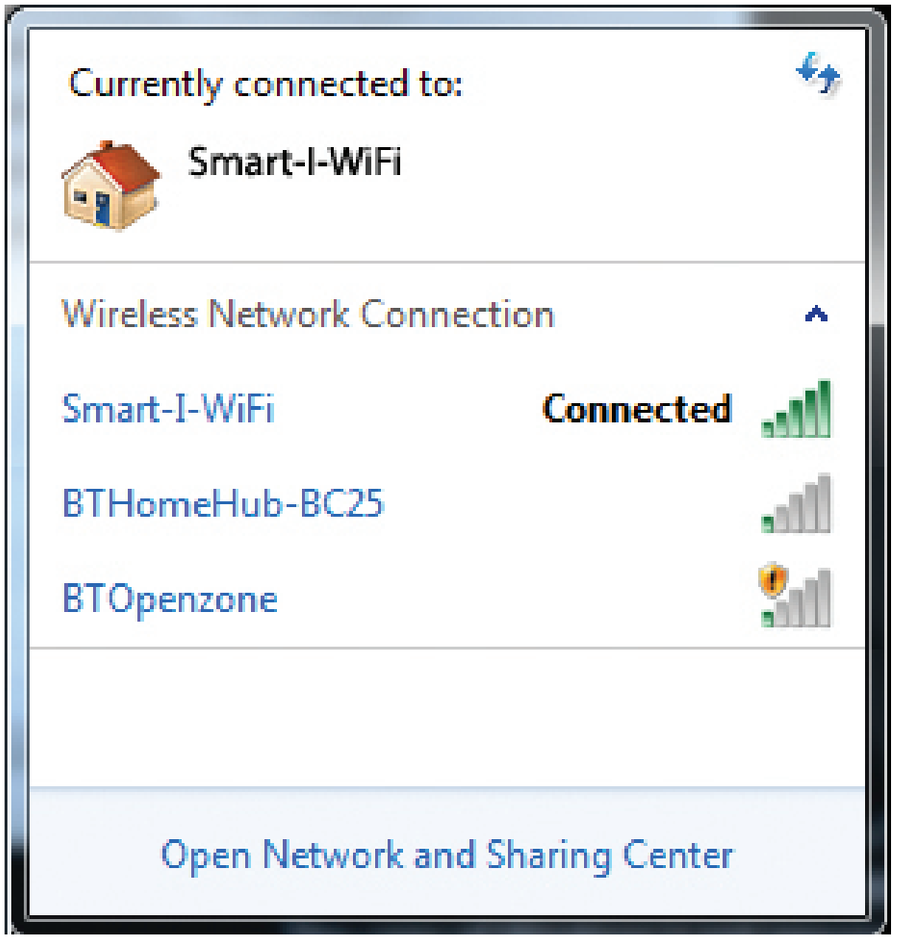
Switch on your SMART-I (ON is the middle position, be careful not to select SETUP, the lowest position, by mistake)

Wait 1 minute, then on your Mac or PC go to Wireless Networks and connect to the SMART-I WiFi network:

Mac Screenshot:



Windows Screenshot:



The SMART-I has a transmission range of 20 metres (this can reduce due to external factors), your device must be in range to connect to your SMART-I.

To connect over longer distances or via the Internet, you can connect SMART-I to your WiFi network. See the ADVANCED CONFIGURATION section for details.

Connecting directly to your SMART-I using an iPhone or iPad

Switch on your SMART-I (ON is the middle position, be careful not to select SETUP, the lowest position, by mistake)

Wait 1 minute

On your iPhone (or iPad), go to:

SETTINGS > Wi-Fi

Select and connect to the SMART-I-WiFi network

Once connected you will see a TICK next to the SMART-I-WiFi network name

Connecting directly to your SMART-I using an Android device

Switch on your SMART-I (ON is the middle position, be careful not to select SETUP, the lowest position, by mistake)

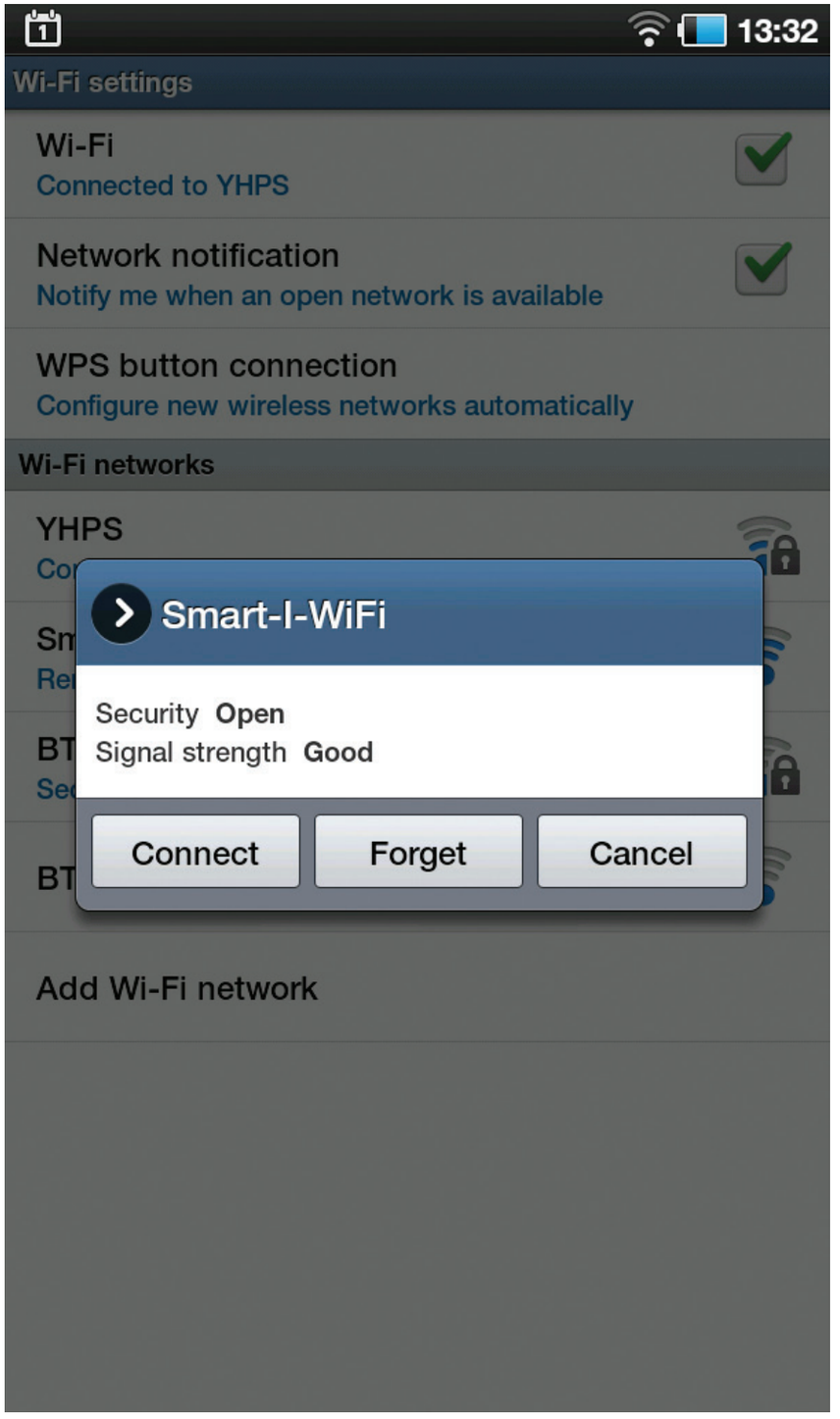
Wait 1 minute

On your Android device, go to:

SETTINGS > WIRELESS AND NETWORK > Wi-Fi SETTINGS

Select and connect to the SMART-I-WiFi network

Once connected you will see under Wi-Fi, Connected to SMART-I-WiFi

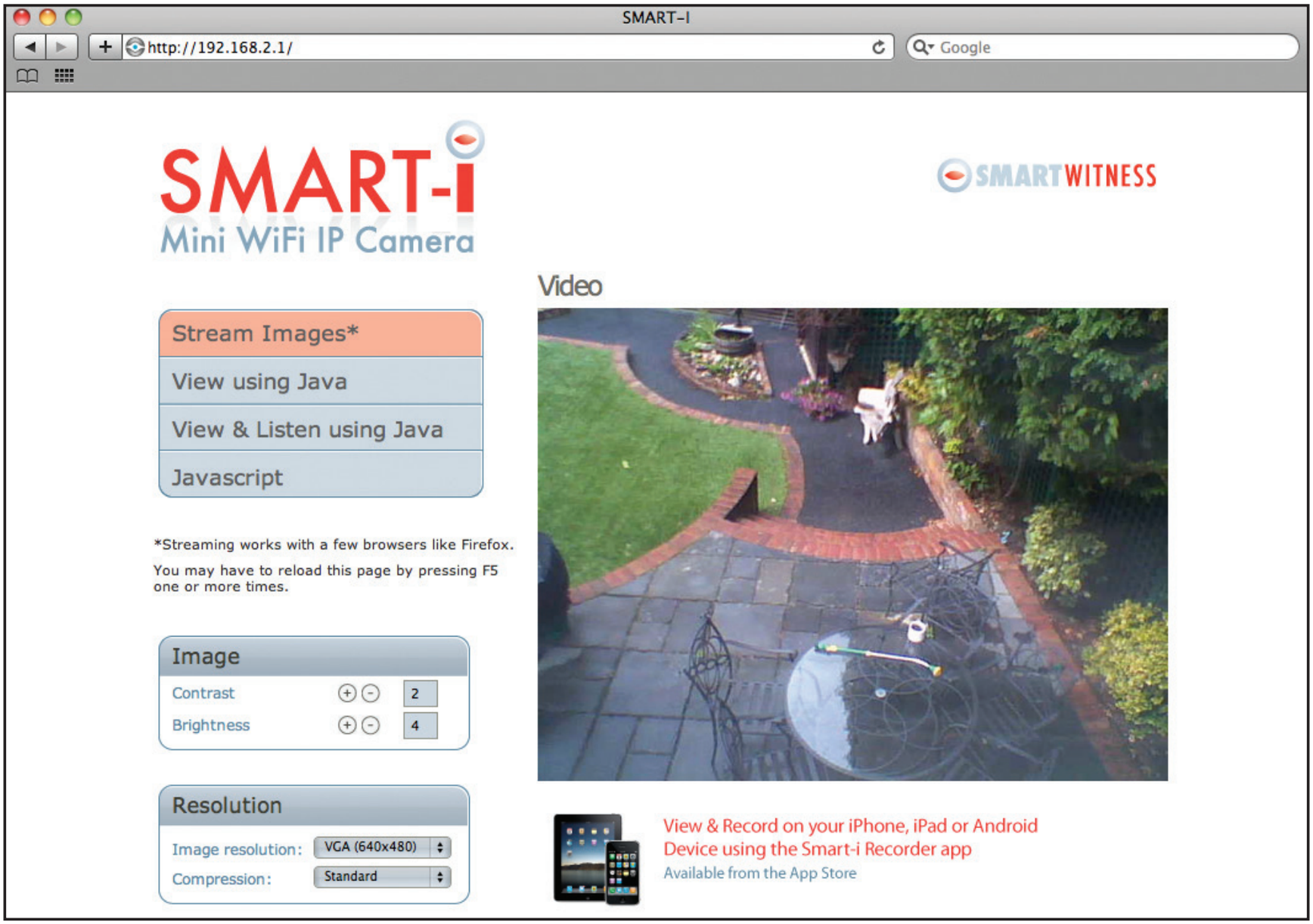


STEP 3 > VIEW

View your SMART-I using a Windows PC or Mac

Open your browser and browse to: **http://192.168.2.1**

You will then see the screen below:



To view your SMART-I, select a stream type:

Stream Images	Streams Video to your browser using MJPEG
View using Java	Streams Video to your browser using Java
View & Listen using Java	Streams Video and Audio to your browser using Java
Javascript	Streams Video to your browser using Javascript
Not all stream types will work with all browsers.	

The SMART-I is compatible with Microsoft Internet Explorer, Google Chrome, Mozilla Firefox & Apple Safari.

To adjust video attributes, press the **+** or **-** next to Contrast & Brightness.

To change the Image Resolution and Compression type, select from the dropdowns.

Reducing the image resolution from VGA to QVGA or QQVGA and increasing the compression from Standard to High, will increase the frame rate in low bandwidth conditions, but will also reduce the image quality.

View your SMART-I using an iPhone or iPad

Open the **Safari** app on your device and browse to: **192.168.2.1**

You will then see the screen below:

To view your SMART-I, select one of the following stream types:

Stream Images	Streams Video to your browser using MJPEG
Javascript	Streams Video to your browser using Javascript

To adjust video attributes, press the **+** or **-** next to Contrast & Brightness.

Audio monitoring & Resolution adjustments are not possible when using the Safari app to connect to the SMART-I.

For the best streaming performance on your iPhone or iPad, as well as Audio monitoring and Recording of your SMART-I, we recommend using the SMART-I app, available from the App Store.

View your SMART-I using an Android device

Open the **Browser** app on your device and browse to: **192.168.2.1**

You will then see the screen below:

To view your SMART-I, select the following stream type:

Javascript	Streams Video to your browser using Javascript

To adjust video attributes, press the **+** or **-** next to Contrast & Brightness.

To change the Image Resolution and Compression type, select from the dropdowns.

Reducing the image resolution from VGA to QVGA or QQVGA and increasing the compression from Standard to High, will increase the frame rate in low bandwidth conditions, but will also reduce the image quality.

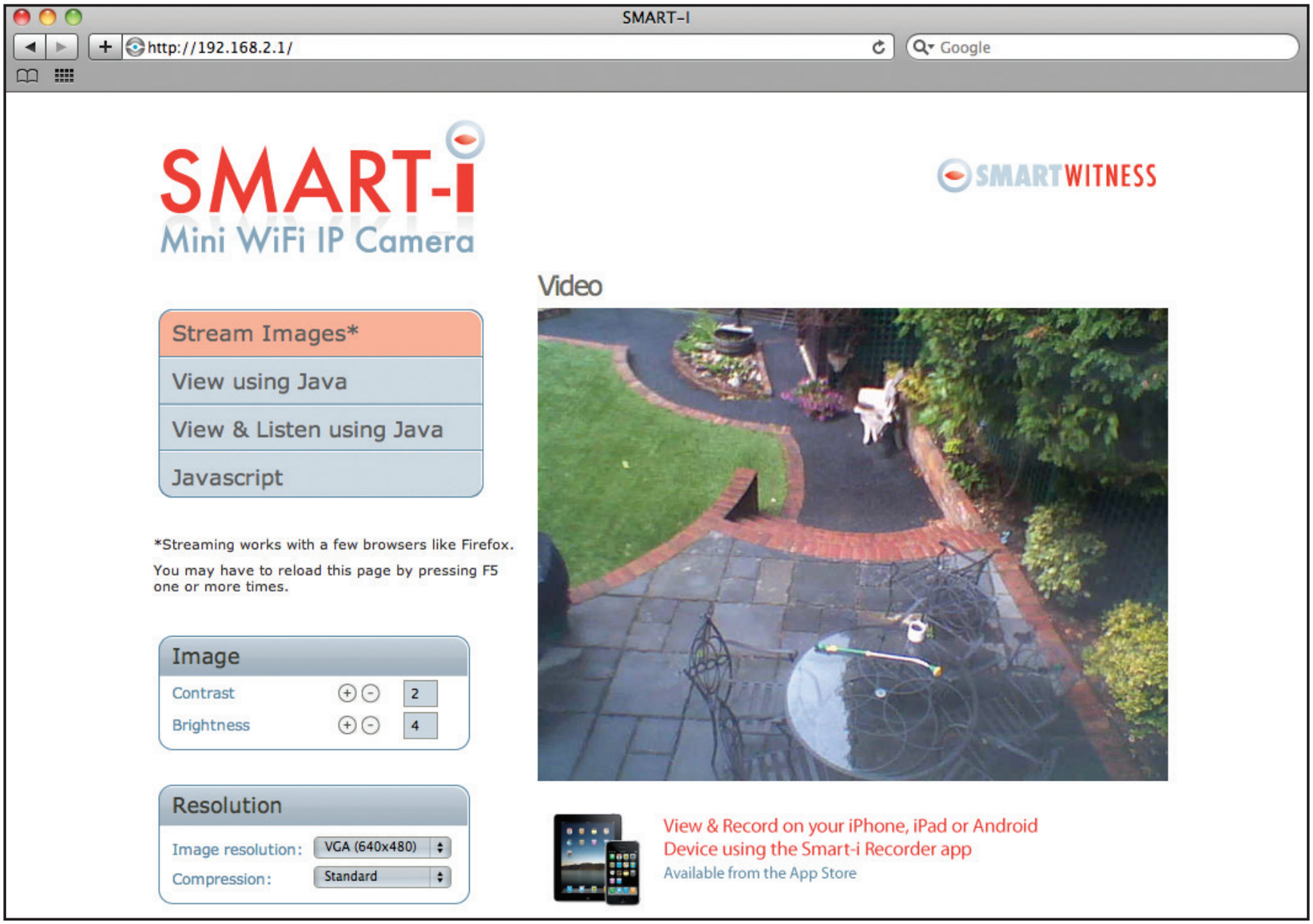
Audio monitoring is not possible when using the Browser app to connect to the SMART-I.

For the best streaming performance on your Android device, as well as Audio monitoring and Recording of your SMART-I, we recommend using the SMART-I app, available from the Market.

STEP 4 > RECORDING

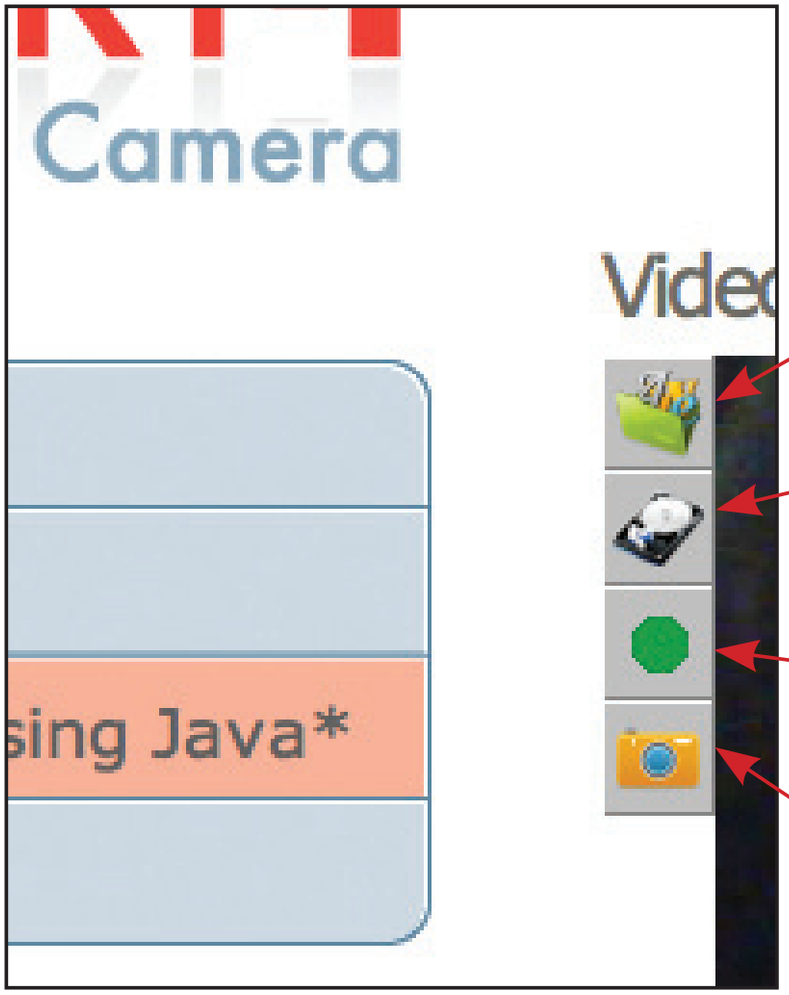
Record your SMART-I using a Windows PC or Mac

Open your browser and go to **http://192.168.2.1**, and select **View using Java** (for video only recording) or **View & Listen using Java** (for video and audio recording), from the screen below:



When the camera image appears, click on the centre of the image.

Then hover your mouse over the left edge of the image and the following menu will appear:



By clicking the icons you can perform the following actions:

Changes the folder that recordings and snapshots are saved to.

Allows you to specify the maximum file size for recordings.

Starts and stops recordings, RED indicates recording is in progress, GREEN shows that recordings are not being made.

Takes a single snapshot and saves it in the recordings folder.

To playback recordings or view snapshots, browse to the recordings folder and double click the file to view. (Your default file player will the play the recording)

Record your SMART-I using an iPhone or iPad

To record your SMART-I on an iPhone or iPad, you will need the **SMART-I** app which is available from the app store.

First, connect to your SMART-I by following STEP 2 in this manual.

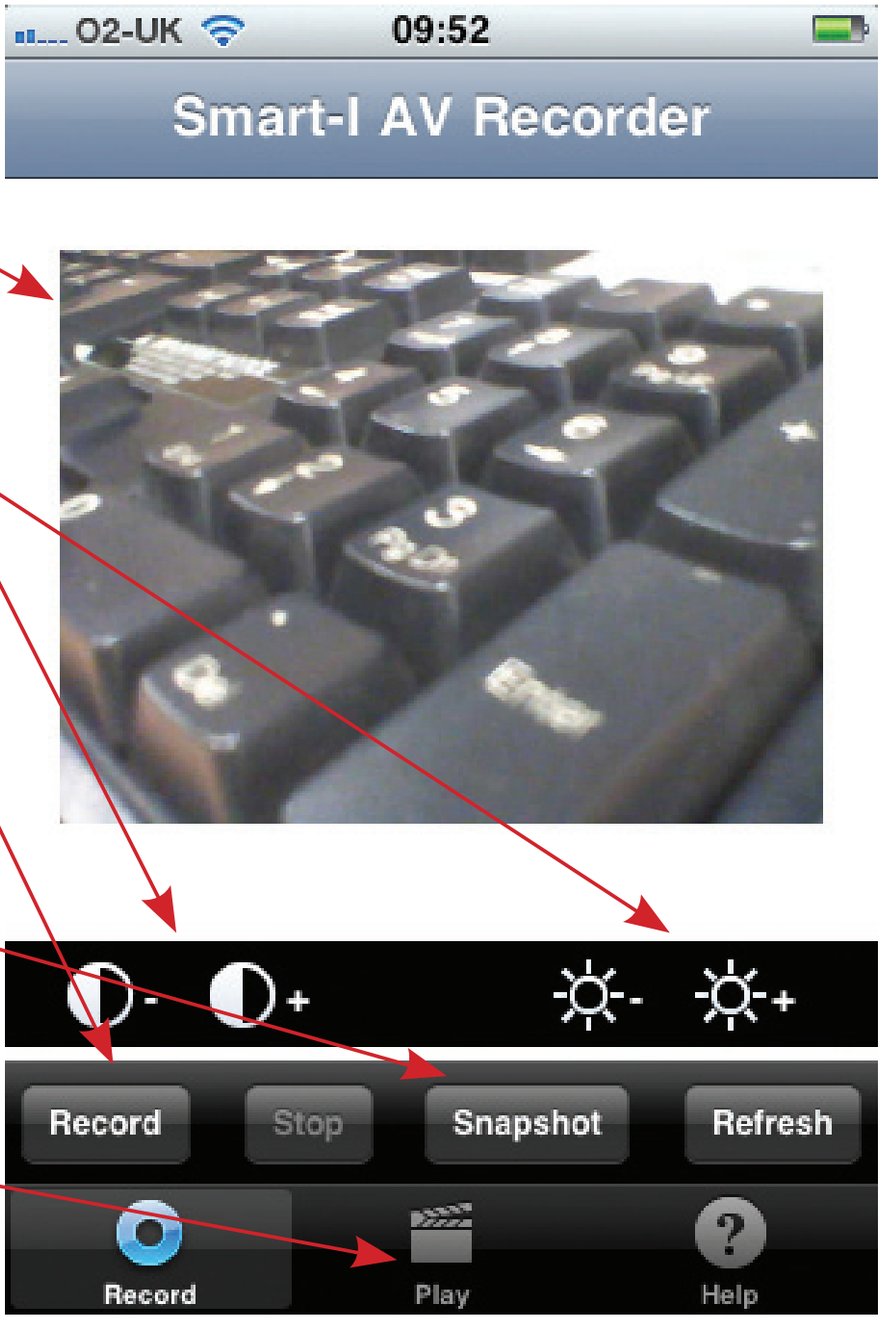
Then open the SMART-I app, you will see and hear your SMART-I.

You can adjust the contrast and brightness of the image by touching the + and - by each.

To record your Smart I touch the RECORD icon, to stop, touch the STOP icon.

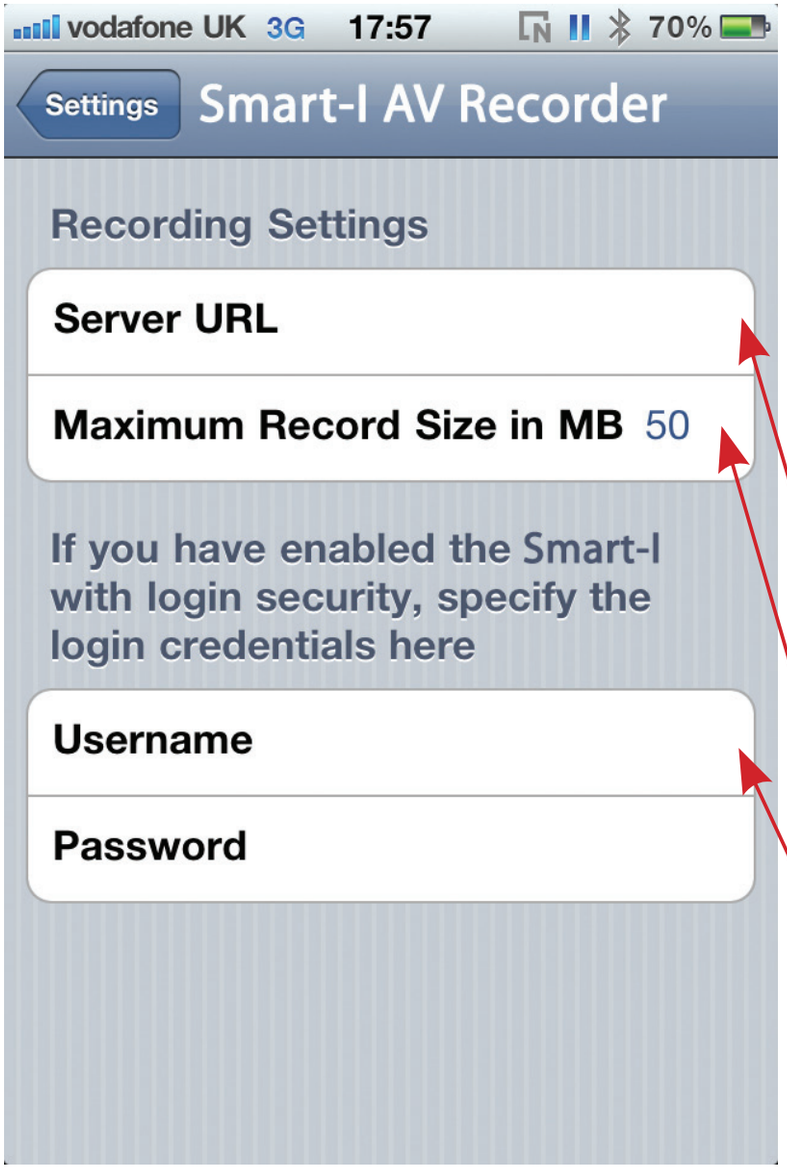
To take snapshots, touch the SNAPSHOT icon. A snapshot will be saved to your Photo Album.

To playback recordings, touch the PLAY icon, and then choose the recording you wish to playback.



For help with using the app, touch the HELP icon.

To transfer recordings to your computer, connect your iPhone or iPad to iTunes and download the recordings.



Additional settings for the SMART-I app can be adjusted by going to the iPhone or iPad's SETTINGS menu, and scrolling down to the SMART-I icon, and opening it.

You will then see the screen opposite.

On this screen you can:

Specify the IP address of the SMART-I you wish to connect to (this could be an external address if you want to connect to a SMART-I over the internet).

Set the maximum size of recorded files.

Input the user name and password of the SMART-I (only required if one has been set).

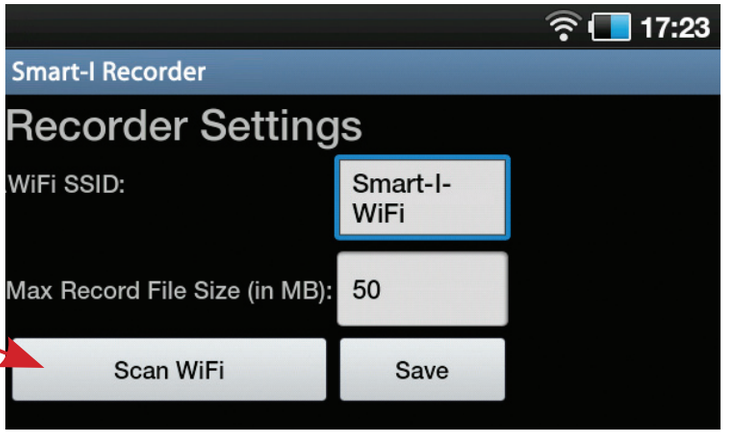
For further details of these settings, see the ADVANCED CONFIGURATION section.

Record your SMART-I using an Android device

To record your SMART-I on an Android device, you will need the app, **SMART-I**, which is available from the Market.

Open the SMART-I app and press SETTINGS.

On the settings screen press SCAN WIFI and select Smart-I-WiFi from the list, enter the maximum file size for recordings and press SAVE.

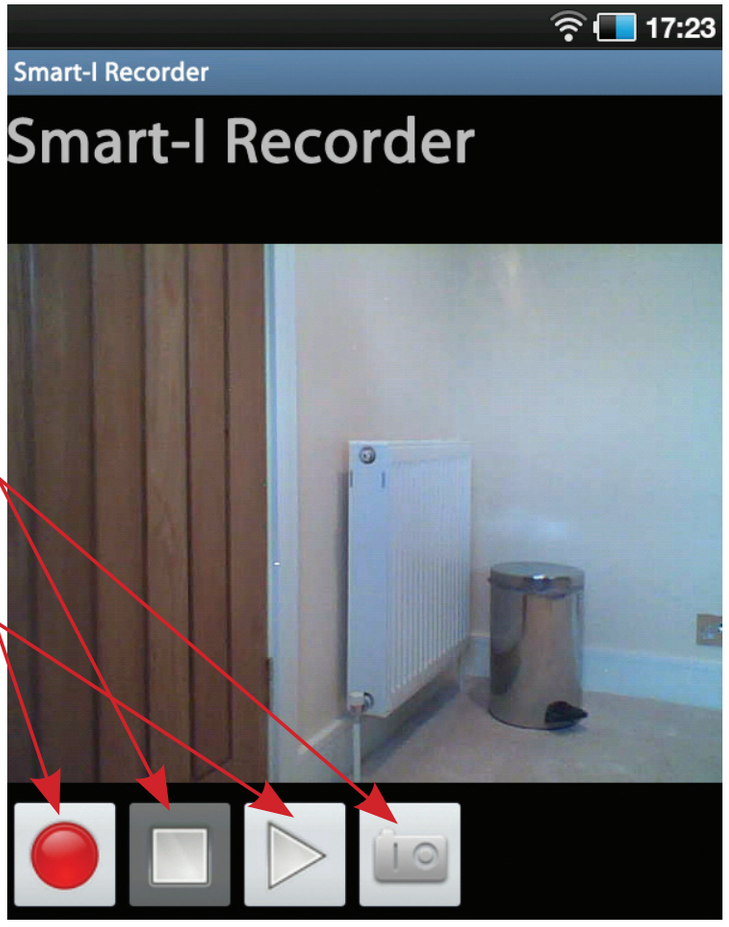


Press RECORD and you will see and hear your SMART-I.

To begin recording press the red circle, to stop press the grey square.

To take a snapshot press the camera icon.

To playback press the grey play symbol and then select the file you wish to playback.



Recordings and snapshots are saved to the Smart-I folder on your device, this can be viewed by using the My Files app on your device.

ADVANCED CONFIGURATION

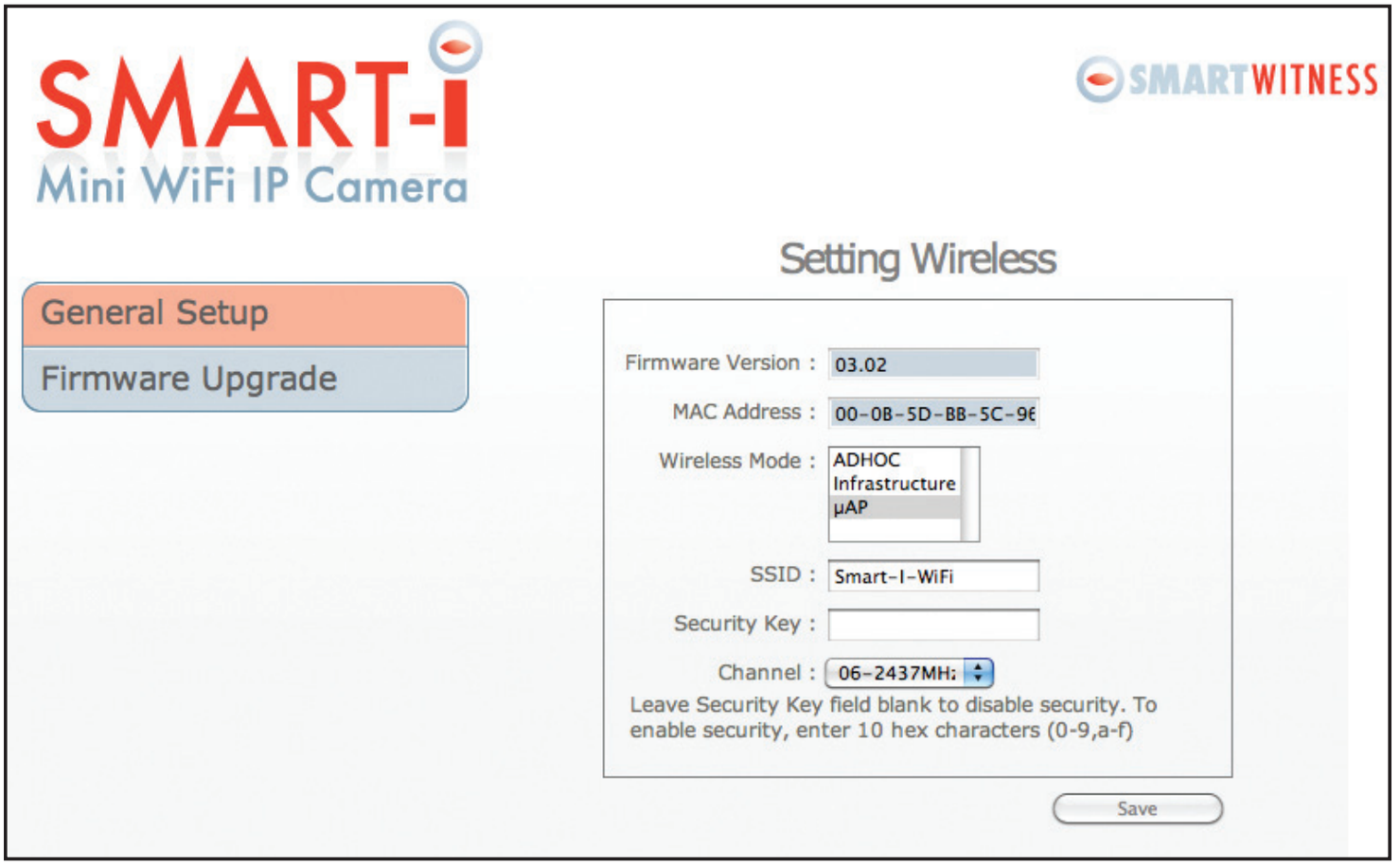
Connecting to SMART-I in configuration mode

If your SMART-I is on, switch it off. Then turn it back on and select the SETUP position (make sure you go straight from OFF to SETUP).

Connect to SMART-I by following STEP 2 shown earlier in this manual.

Using a browser on your Windows PC or Mac, go to: **http://192.168.2.1**

You will then see the screen below:



Configuring the SMART-I's Wireless Mode

The SMART-I's WiFi mode can be changed to the following:

<table>
<tr><td>uAP</td><td>This is the standard mode, in this mode the SMART-I will be a Wireless Access Point, and will allow other devices to connect directly to it.

You can configure this mode as follows:<table><tr><td>Security Key</td><td>Add a security key to prevent unauthorised connections to the SMART-I's access point.</td></tr><tr><td>SSID</td><td>Change the name of the SMART-I's wireless network.</td></tr><tr><td>Channel</td><td>Allows you to change the channel number that the SMART-I's access point uses. Changing channel can help improve the signal, especially if there are many other wireless networks in use at your location.</td></tr></table></td></tr>
</table>

ADHOC	This mode is for Computer to Computer WiFi connections. You will need to specify the SSID, Security Key and Channel your AD HOC network uses.

<table>
<tr><td>Infrastructure</td><td>This mode is for connecting SMART-I to your WiFi connection:

You will need to enter the following information about your WiFi network:<table>
<tr><td>SSID</td><td>This is the name of your WiFi network</td></tr>
<tr><td>Authentica-tion</td><td>You will need to select the type of security your WiFi network is using</td></tr>
<tr><td>Security Key</td><td>You will need to enter the security key or phrase, if the WiFi network uses one</td></tr>
<tr><td>IP Mode</td><td>Two modes are available, DHCP (The SMART-I will obtain an IP address automatically from your Access Point) and Manual (You will need to enter the IP address details for SMART-I to use).</td></tr>
</table></td></tr>
</table>

User Name & Password	As an additional security option, when in Infrastructure mode, the camera can request a User Name & Password before allowing access.

Accessing SMART-I from a Local Network or the Internet

Local Network:

To access the SMART-I from your local network, connect the SMART-I to your Wireless Access Point using SMART-I's Infrastructure mode.

To view SMART-I using a **PC/Mac browser**, type in the SMART-I's IP address.

To view SMART-I using the **SMART-I app for iPhone/iPad**, press SEARCH and then select the SMART-I from the list.

The **SMART-I app for Android devices**, cannot connect to SMART-I when SMART-I is in Infrastructure mode, to view the SMART-I use the Android **Browser** app.

Internet:

To access the SMART-I over the Internet, connect the SMART-I to your network in Infrastructure mode, and then setup port forwarding on your router.

For further information about port forwarding, see www.portforward.com or contact the SMART-I Product Support Line.

To view SMART-I using a **PC/Mac browser**, type in your routers external IP address.

To view SMART-I using the **SMART-I app for iPhone/iPad**, go to SETTINGS > SMART-I on your device and type in the external IP address under SERVER URL.

The **SMART-I app for Android devices**, cannot connect to SMART-I over the Internet, to view the SMART-I use the Android **Browser** app.

Don’t have a Fixed External IP Address?

If you do not have a fixed external IP address from your internet provider, then you will need to join a Dynamic DNS service, as your external IP address will change all the time, so you will not know what address to use for remote viewing of your SMART-I.

The Dynamic DNS service will give you a host name that never changes, so you have a permanent address that you can use to access your SMART-I over the internet.

The Dynamic DNS service we recommend to use, is dyndns, which can be found at www.dyndns.org.

For help with DYNDNS setup, contact the SMART-I Product Support Line.

Reprogramming your SMART-I’s WiFi Settings

If you have made an error while changing the SMART-I’s WiFi settings, and are unable to access it any more, you can enter the SETUP mode again and reprogram the WiFi settings.

To do this, turn off SMART-I, wait 10 secs, turn SMART-I on in the SETUP position.

Connect to SMART-I by following STEP 2 shown earlier in this manual.

Using a browser on your Windows PC or Mac, go to: **http://192.168.2.1**, you will now be able to reprogram the WiFi settings.

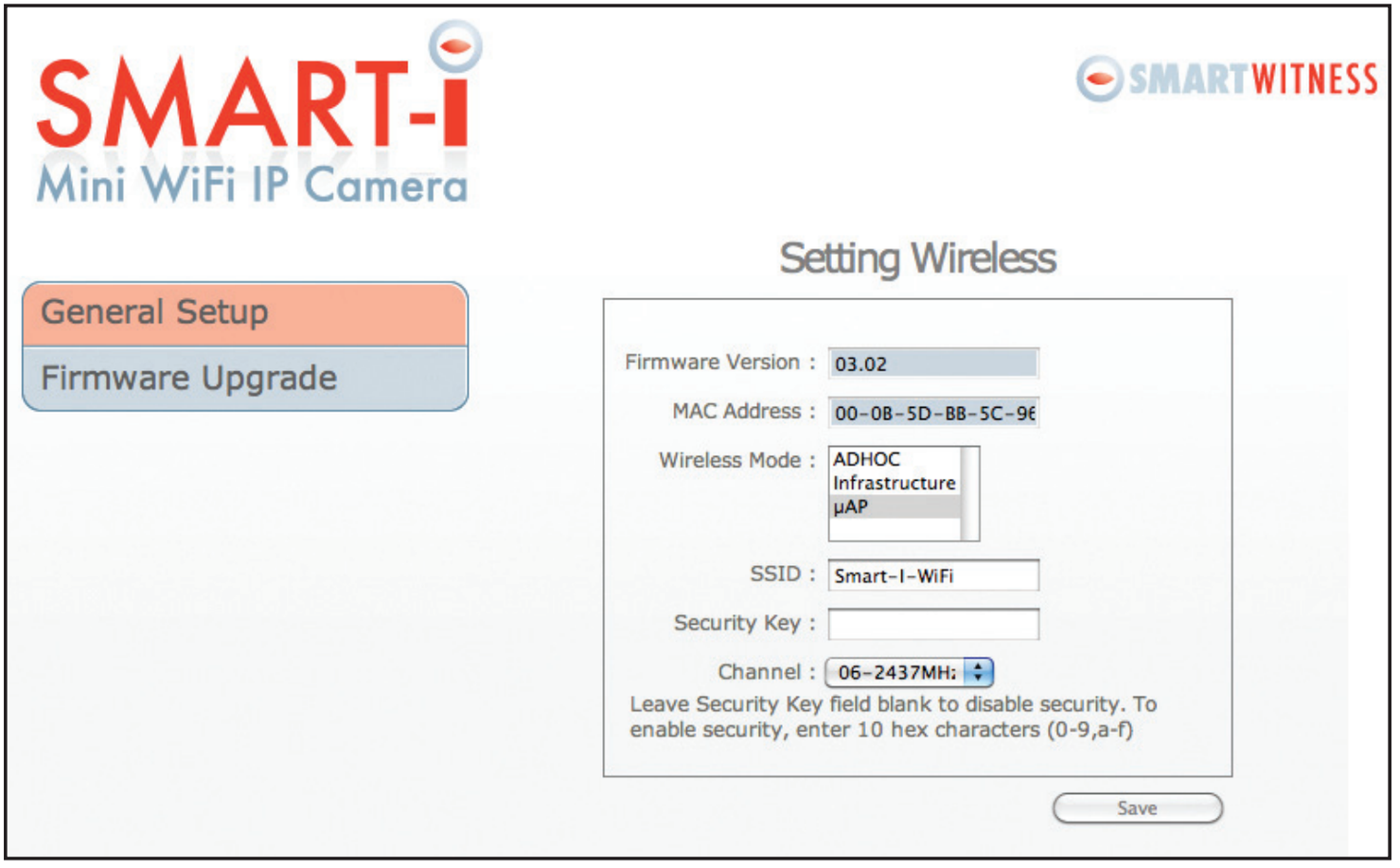
Upgrading the SMART-I's firmware

To check if your SMART-I has the latest firmware, go to www.smartwitness.com, find SMART-I on the Support page and check for the latest firmware.

To upgrade your SMART-I's firmware, switch it off, then turn it back on and select the SETUP position (make sure you go straight from OFF to SETUP).

Connect to SMART-I by following STEP 2 shown earlier in this manual.

Using a browser on your Windows PC or Mac, go to: **http://192.168.2.1**, you will see the following screen:



Make sure you have downloaded the firmware file and you know where it is located on your computer.

Do not proceed any further unless you have new firmware to apply, otherwise your SMART-I will stop operating and will need to be reset at your nearest SMART-I service centre!!!

Click on Firmware Upgrade, and then click Switch

Follow the on screen instructions, which are to turn SMART-I **OFF**, and then turn it back on again in **SETUP** mode.

Now connect to SMART-I again, this time you will notice the WiFi network name has changed to **Smart-I Firmware AP**, connect to this and browse to htpp://192.168.2.1 again.

You will be prompted to enter a User Name and Password, these will be shown on the Support page on smartwitness.com that you downloaded the firmware from, along with the final steps to complete the firmware upgrade.

SPECIFICATIONS

Model Number	SMART-I
Image Sensor	Digital CMOS
Minimum Illumination	1.0 Lux
Viewing Angle	50°
Video Resolution & Speed	640x480 @ 30fps
WiFi Compatibility	802.11 b/g/n
Battery	CR2 (supplied)
Battery Life	2 hours (estimated)
Dimensions (WHD in mm)	30x30x35

SMARTWITNESS

Unit 2, Valley Point, Beddington Farm Road,
Croydon, Surrey. CR0 4WP. U.K.

www.smartwitness.com

Product Support: +44 (0)871 222 1430

© Copyright 2011, Specifications are subject to change without notice